

ABSTRACT

The present invention utilizes the characteristics of the fluid dynamic bearing and can prevent the movement of the impeller so as to hit the case body by rotating certainly, since the blower motor in the present invention includes the case body having the intake formed at the cover which is formed, at least, at the one side and the exhaust formed at the peripheral wall; the motor with the fluid dynamic bearing, installing in the interior or exterior portion of the case body; the impeller which is fixed to the rotating member of the motor so as to locate at the outer circumferential part of the motor or the above-mentioned interior portion of the case body of the motor, having the cover plate which is formed at the either of the upper surface or lower surface, or the both surfaces, and capable of sucking in air from the intake by rotating and discharging from the exhaust by rotating; the upper and lower pressure chamber which adds pressure so as to press the impeller to the thrust direction, installed between the outer circumferential part of the upper and lower cover plate of this impeller and the interior portion of the case body which faces the outer circumferential part; and the upper and lower valve chamber which discharges the pressure air in the upper and lower pressure chamber to the exterior portion.